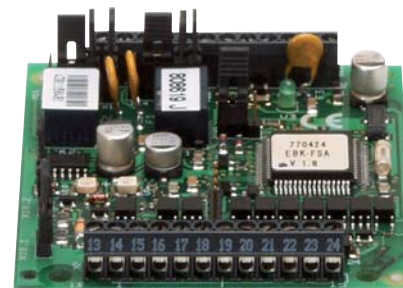


## FDC transponder

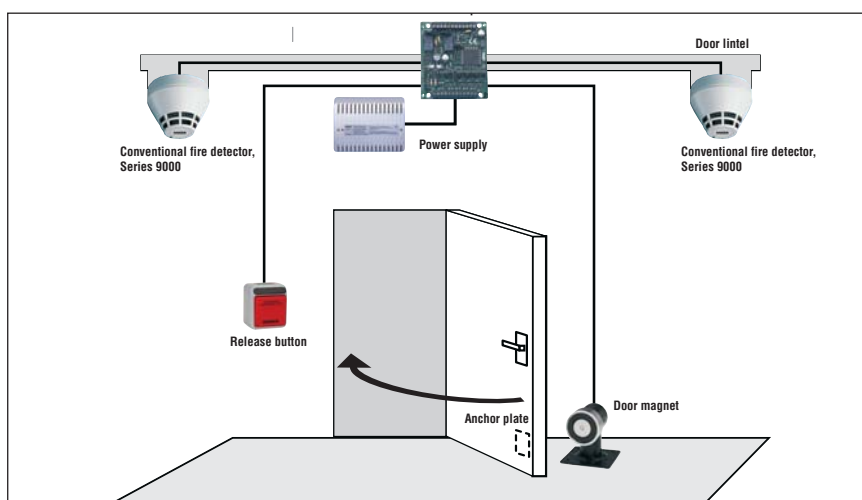
- **Detector zone inputs for connecting standard detectors (Series 9000) or diagnostic detectors (Series 9100)**
- **Wide operating voltage range from 10.5 volt DC to 28 volt DC**
- **Protection class IP 40**
- **Use of the esserbus provides convenient display and control options on the fire alarm control panel**
- **Up to 30 detectors per zone can be connected via the FDC transponder**
- **The analog detectors on the esserbus can also be configured as release inputs for the fire-door control system**



### Containment is the key

In the initial phase, the spread of a fire and smoke to neighbouring areas is a fire protection problem. The division of buildings and complexes into closed fire sections in order to protect people and property is absolutely essential. One of the problems of limiting the scope of a fire in this way is that in practice the individual fire sections cannot be completely isolated, due to the constant traffic in the building during business hours. The fire sections are therefore usually separated by fire-doors, which are kept open mechanically by devices under the control of a fire-door control system (FDC) during everyday use. When a fire occurs, the fire-door control system releases these devices and automatically activates door closers. The new esserbus transponder

for fire-door control systems (referred to here as an FDC transponder) enables the doors to be closed in the fire sections affected by a fire. The flames are thus prevented from spreading, and unaffected neighbouring fire sections and people are protected against smoke.



*The FDC transponder as stand-alone solution with 2 conventional fire detectors*

# FDC transponder

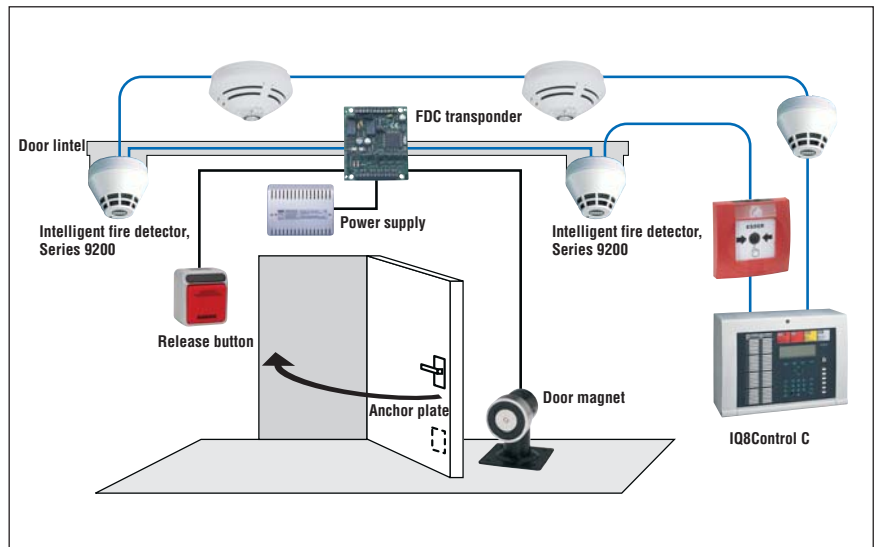
## Function and method of operation

When an alarm is activated, the current supply to the fire-door holding device is interrupted. This may be done automatically when a fire is detected by a connected fire detector, or manually by pressing the release button. Trouble in a detector zone or failure of the power supply also causes the holding device to be released. If any one of these situations occurs, the holding devices are released and the doors are automatically closed, possibly via a doorcloser system.

The FDC transponder can also be reset in stand-alone mode with the release button.

## Flexible use

The FDC transponder can be used for a variety of applications, either in stand-alone mode or on the esserbus. It reliably releases the appropriate holding devices.



*The analog detectors on the esserbus can also be configured as release elements for the fire-door control system*

## All advantages of fire alarm technology in one unit:

### FDC detector on the esserbus

As the most effective solution for fire door control, the FDC transponder and the FDC detector are directly connected to the esserbus loop. With the FDC integration into the fire alarm system - as it is now approved by the building authorities - a great number of advantages has arisen since all amenities in the multi-purpose fire alarm systems 8000 and IQ8Control can be directly combined with fire door control functions.

- The intelligent loop detectors are now part of the fire door control system. They are simply configured as FDC detectors and the system uses multi-sensor technology as tried and tested in fire alarm technology in order to release the appropriate holding devices more reliably than before with reduced false alarm generation.
- The status display at the fire alarm control panel. Since being directly connected to the fire alarm control panel, each FDC status and message can be similarly visualised as any other information provided by the fire alarm control system.
- Holding devices can be released by any other detector and not only by actual FDC detectors. This can be achieved by simply configuring customer data.

In addition, the system 8000 and IQ8Control fire door control implements the usual security features of stand-alone operation. Short-circuit, wire break, test mode or deactivated FDC detector zones as well as missing power supply release the holding devices.

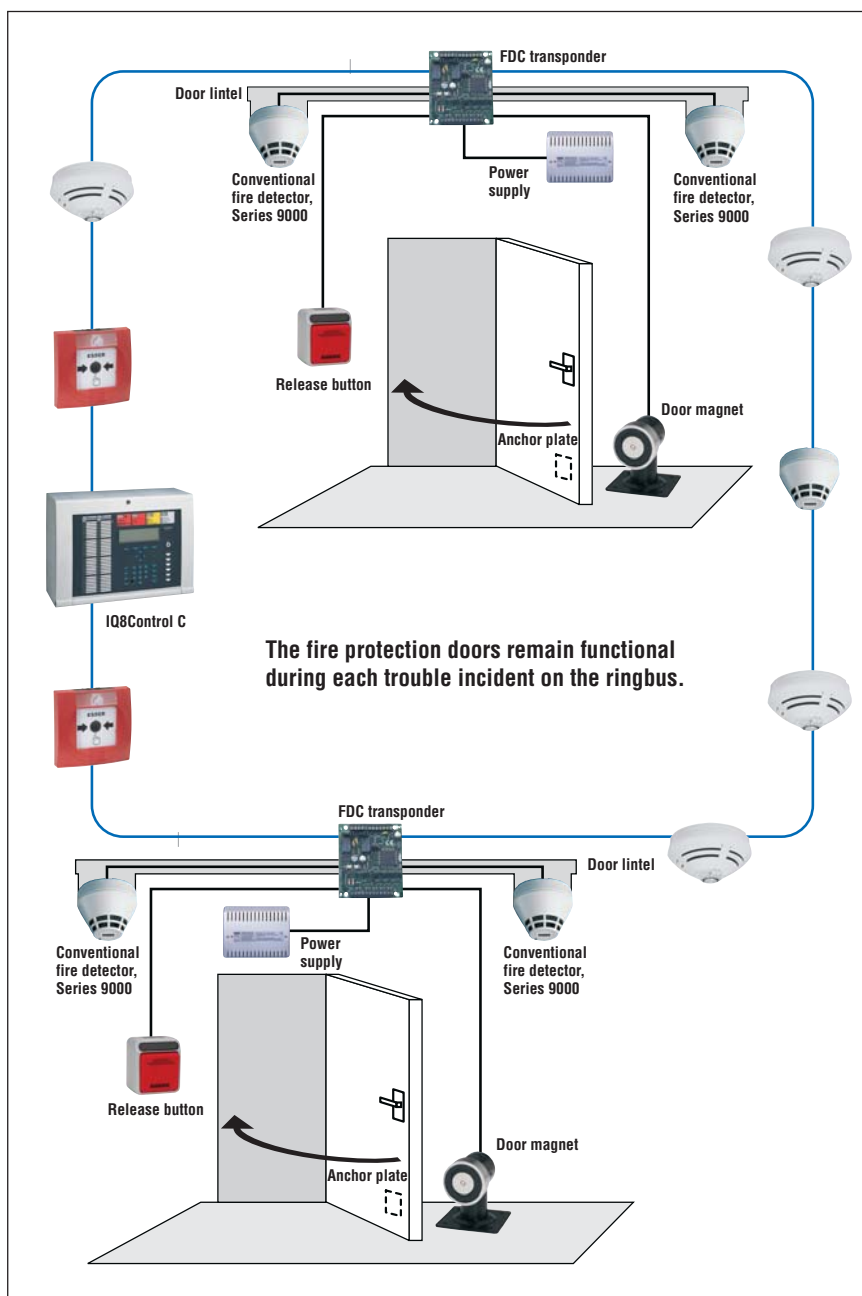
Not only for complete installations or for new planning and configuration the system 8000 FDC should be used. Especially the troublefree and economical integration of fire door control into already existing fire alarm systems contributes to the purpose of updating and modernising hazard alarm systems.

### Efficient stand-alone operation

As a stand-alone release device for door holders, the FDC transponder provides preventive fire protection. It is connected to the associated power supply unit (see accessories) as a control unit. Conventional Series 9000 detectors (without switch-on control) or Series 9100 diagnostic fire detectors can be connected to the detector zone inputs as FDC detectors.

An external power unit is needed as a voltage source for the FDC transponder and the holding device. The relay on the FDC transponder (the normally closed contact) interrupts the power supply of the holding device

when it is tripped and thus enables the fire doors to be closed. In this way, the adjacent fire sections are effectively isolated from each other. The fire doors are also closed if trouble is detected in a detector zone or the supply voltage fails.



Preventive fire protection with a number of fire doors and the FDC transponder on the esserbus


*FDC transponder accessories*

### Technical Data

Rated voltage	19 V DC
Current consumption on esserbus	< 350 µA
External supply	
Voltage range	10 V to 28 V DC
Rated voltage	12 V or 24 V DC
Current consumption	max. 28 mA
Quiescent current	< 6 mA
Rated voltage detector zones	9 V DC
Relay contact rating	30 V DC/1 A; 48 V DC/0,5 A
Ambient temperature	-10 °C to +50 °C
Weight	approx. 70 g
Dimensions plate (W x H x D)	72 x 65 x 20 mm
Type of protection	IP 40 (with housing)
VdS-Approval	G 298037
DIBt-Approval	Z.-6.5-1759    System IQ8 FDC 8619 Z.-6.5-1764    Fire door release system FDC System 8000 Z.-6.5-1457    System SAL 9000 FDC Z.-6.5-430    Fire door systems between fire sections

### Order information

	Part No.
esserbus transponder for door release system	808619.10
<b>Accessories</b>	
Power supply unit for RAS 2103 (12 V / 3A) for fire door release systems	765612
Power supply unit RAS 2103 (24 V / 1.5A) for fire door release systems	765624
Surface mount release key for automatic door - arrester system	767813
Flush mount release key for automatic door arrester system	767814
Housing surface mount, grey	788600
Housing flush mount, grey	788601
Housing surface mount, white	788650.10
Housing flush mount, white	788651.10

For further order data please refer to our "Fire Alarm Technology" product line catalogue.